METHOD 9 VISIBLE EMISSION OBSERVATION FORM

Date: IPL Peters burg Source name: Observer: Source address: Affiliation: Petersburg, IN 47567

-Fired Power Plant Facility type:

Emission location (stack, roof, etc.): Estimated emission location height: Stack 615 Estimated distance to emission location: Direction from emission location: West 1.62 miles (8,554 feet

Plume color: brown / blue Background: blue sky, fee Background colors ske Sky color: be

لاصا :Cloud color Estimated wind speed: 10.4 mph Approximate wind direction: \$\infty\$ to \$\infty\$

Temperature: 91.2 Additional Comments (photos/video taken, etc.): photos taken

North Arrow

Wind Direction

40 C.F.R. Part 60, Appendix A, Reference Method 9
2.3 Observations. "Opacity observations shall be made at the point of greatest opacity in that portion of the plume where condensed water vapor is not present."

>Observer

140°

→ Emission Location

Show north arrow, wind direction and sun position:

2.3.1 Attached Steam Plumes. "When condensed water vapor is present within the plume as it emerges from the emission outlet, opacity observations shall be made beyond the point in the plume at which condensed water vapor is no longer visible. The observer shall record the approximate distance from the emission outlet to the point in the plume at which the observations are made."

2.3.2 Detached Steam Plume. "When water vapor in the plume condenses and becomes visible at a distinct distance from the emission outlet, the opacity of emissions should be evaluated at the emission outlet prior to the condensation of water vapor and the

"On an overcast day when no shadows are observed and the lighting is diffuse or flat, this rule might not be as important from a scientific standpoint as on a bright, sumny day. Observers might have trouble defending their positions in court if they disregard the rule. The best practice for an observer is to always have the sun at his or her back, even if it is not visible and no shadows are cast." http://www.epa.gov/ttn/emc/methods/VECourse.pdf

				onds		Steam		
Time	Minute	0	15	30	45	Attached	Detached	Comments
6:00	1	50	45	55	40			
5:00	2	40	1055	50	55			
	3	55	\$ 5	50	55			
	4	45	40	45	40			
	5	45	35	<i>3</i> 5	40			
	. 6	40	35	45	40			
	7	35	40 35	.35	40			
	8	40	35	40	55			
	9	65	55	50	50 55			
	10	45	55	50	55			
	11	40	40	35	40			
	12	['] 35	30	40	40	1		
	13	35	40	40	35			
	14	45_	40	50	65		,	
	15	50	50	45	40			
	16	45	50	40	50			·
	17	40	50	45	45			
	18	40	50	50	45			
	19	60	55	40	40			
	20	50	60	60	50			
	21	45	40	40	50	<u> </u>		
	22	40	50	50	50			
	23	45	45	45	45			
	24	50	60	60	60		,	
	25	55	50	50	50			
	26	45	60	55	45			
	27	65	70	65	50			
	28	50	50	55	45			
5:307	29	35	50	55 50 45	45 30			
6 730 *	30	50	40	45	40			

(Continued on other side \rightarrow)

Signature: Date last certified:

										Weat	herUndergroun	d.com
7/13/15	Time (EDT)	Temp.	Heat Index	Dew Point	Humidity	Pressure	Visibility	Wind Dir	Wind Speed	Gust Speed	Petersburg,	Conditions 7/13/15
7	8:35 AM	80.1 °F	84.4 °F	73.2 °F	80%	29.84 in	10.0 mi	SW	6.9 mph		0.01 in	Clear
	8:55 AM	81.5 °F	86.3 °F	72.7 °F	74%	29.84 in	10.0 mi	WSW	8.1 mph	ž vitav	0.01 in	Clear
	9:15 AM	82.4 °F	87.9 °F	72.9 °F	73%	29.84 in	10.0 mi	WSW	6.9 mph	-	N/A	Clear
	9:35 AM	82.9 °F	88.8 °F	73.0 °F	72%	29.84 in	10.0 mi	WSW	10.4 mph	E	N/A	Clear
	9:55 AM	83.7 °F	89.7 °F	73.0 °F	70%	29.84 in	10.0 mi	WSW	11.5 mph		N/A	Clear
	10:15 AM	84.6 °F	91.7 °F	73.8 °F	70%	29.84 in	10.0 mi	WSW	9.2 mph	F Spec	N/A	Clear
	10:35 AM	85.3 °F	92.6 °F	73.8 °F	68%	29.83 in	10.0 mi	WSW	6.9 mph	-	N/A	Clear
	10:55 AM	85.8 °F	93.4 °F	73.6 °F	67%	29.83 in	10.0 mi	sw	6.9 mph		N/A	Clear
	11:15 AM	86.2 °F	93.8 °F	73.8 °F	66%	29.84 in	10.0 mi	WSW	8.1 mph	-	N/A	Clear
	11:35 AM	86.2 °F	93.8 °F	73.6 °F	66%	29.82 in	10.0 mi	WSW	4.6 mph	- × × ×	N/A	Clear
	11:55 AM	87.1 °F	94.5 °F	73.2 °F	63%	29.83 in	10.0 mi	West	4.6 mph	-	N/A	Clear
	12:15 PM	87.3 °F	96.3 °F	74.8 °F	66%	29.84 in	10.0 mi	WSW	3.5 mph	1	N/A	Scattered Clouds
	12:35 PM	87.8 °F	96.6 °F	74.1 °F	64%	29.83 in	10.0 mi	sw	6.9 mph	-	N/A	Scattered Clouds
	12:55 PM	87.4 °F	94.4 °F	72.7 °F	61%	29.83 in	10.0 mi	WSW	5.8 mph	= ,	N/A	Clear
	1:15 PM	88.3 °F	96.4 °F	73.2 °F	61%	29.83 in	10.0 mi	WSW	6.9 mph		N/A	Clear
	1:35 PM	88.9 °F	97.1 °F	73.4 °F	60%	29.82 in	10.0 mi	South	5.8 mph	, =	N/A	Clear
	1:55 PM	89.4 °F	98.3 °F	74.1 °F	60%	29.81 in	10.0 mi	South	6.9 mph	-	N/A	Clear
	2:15 PM	89.2 °F	97.4 °F	73.4 °F	59%	29.80 in	10.0 mi	South	5.8 mph		N/A	Scattered Clouds
	2:35 PM	90.0 °F	97.4 °F	72.5 °F	56%	29.79 in	10.0 mi	SSW	8.1 mph		N/A	Scattered Clouds
	2:55 PM	90.0 °F	96.4 °F	71.4 °F	54%	29.79 in	10.0 mi	WSW	6.9 mph	16.1 mph	N/A	Scattered Clouds
	3:15 PM	89.6 °F	96.6 °F	72.1 °F	56%	29.79 in	10.0 mi	SW	8.1 mph	- , , , , ,	N/A	Mostly Cloudy
	3:35 PM	90.7 °F	98.5 °F	72.5 °F	55%	29.78 in	10.0 mi	SW	9.2 mph		N/A	Mostly Cloudy
	3:55 PM	91.4 °F	98.9 °F	72.0 °F	53%	29.77 in	10.0 mi	sw	11.5 mph		N/A	Scattered Clouds
	4:10 PM	91.0 °F	97.6 °F	71.4 °F	52%	29.76 in	10.0 mi	SSW	10.4 mph	16.1 mph	N/A	Scattered Clouds
	4:35 PM	91.0 °F	97.6 °F	71.4 °F	52%	29.75 in	10.0 mi	SW	10.4 mph	F	N/A	Clear
	4:55 PM	91.2 °F	98.0 °F	71.6 °F	52%	29.75 in	10.0 mi	SSW	10.4 mph	1.01600	N/A	Clear

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	Time (EDT)	Temp.	Heat Index	Dew Point	Humidity	Pressure	Visibility	Wind Dir	Wind Speed	Gust Speed	O	Peter Events	(SOUYS, IN Conditions	
	5:15 PM	90.9 °F	96.7 °F	70.7 °F	51%	29.75 in	10.0 mi	SSW	11.5 mph	17 .3 mph	N/A		Scattered Clouds	
	5:35 PM	91.4 °F	97.8 °F	70.9 °F	51%	29.74 in	10.0 mi	SW	11.5 mph	18.4 mph	N/A		Scattered Clouds	
\rightarrow	5:55 P M	90.9 °F	96.7 °F	70.7 °F	51%	29.74 in	10.0 mi	ssw	11.5 mph	17.3 mph	N/A		Clear	
	6:15 P M	90.9 °F	97.3 °F	71.1 °F	52%	29.73 in	10.0 mi	sw	9.2 mph	16.1 mph	N/A		Clear	
	6:35 PM	90.5 °F	97.0 °F	71.4 °F	53%	29.72 in	10.0 mi	sw	6.9 mph	-	N/A		Clear	
	6:55 PM	90.0 °F	96.9 °F	72.0 °F	55%	29.72 in	10.0 mi	sw	9.2 mph	16.1 mph	N/A		Clear	
	7:15 P M	89.6 °F	97.2 °F	72.5 °F	57%	29.71 in	10.0 mi	ssw	10.4 mph	-	N/A		Clear	
	7:35 P M	89.1 °F	97.0 °F	73.2 °F	59%	29.70 in	10.0 mi	South	8.1 mph	-	N/A		Clear	
	7:55 P M	88.5 °F	96.8 °F	73.4 °F	61%	29.70 in	10.0 mi	ssw	9.2 mph	-	N/A		Clear	
	8:15 P M	87.6 °F	95.7 °F	73.8 °F	63%	29.71 in	10.0 mi	ssw	8.1 mph	<u>.</u> .	N/A		Clear	
	8:35 P M	86.2 °F	94.2 °F	74.1 °F	67%	29.70 in	10.0 mi	ssw	6.9 mph		N/A		Clear	
	8:55 P M	85.1 °F	92.9 °F	74.5 °F	70%	29.69 in	10.0 mi	ssw	8.1 mph	-	N/A	i	Clear	
	9:15 P M	85.1 °F	92.9 °F	74.3 °F	70%	29.70 in	10.0 mi	ssw	8.1 mph	- ′	N/A		Clear	
	9:35 PM	84.7 °F	92.5 °F	74.3 °F	71%	29.70 in	10.0 mi	ssw	6.9 mph	-	N/A		Clear	
	9:55 PM	84.4 °F	91.3 °F	73.6 °F	70%	29.70 in	10.0 mi	ssw	9.2 mph	-	N/A		Clear	
	10:15 PM	83.8 °F	90.1 °F	73.2 °F	70%	29.70 in	10.0 mi	ssw	10.4 mph	·_	N/A	· .	Clear	
	10:35 PM	84.4 °F	90.3 °F	72.3 °F	67%	29.70 in	10.0 mi	ssw	11.5 mph	17.3 mph	N/A		Clear	
	10:55 PM	83.8 °F	89.2 °F	72.0 °F	67%	29.69 in	10.0 mi	ssw	11.5 mph	17.3 mph	N/A		Clear	
	11:15 PM	83.7 °F	89.2 °F	72.1 °F	68%	29.68 in	10.0 mi	SSW	9.2 mph	-	N/A	Rain	Light Rain	
	11:35 PM	83.3 °F	88.7 °F	72.1 °F	69%	29.68 in	10.0 mi	SW	13.8 mph	17.3 mph	N/A	Rain	Light Rain	
	11:55 PM	83.3 °F	88.4 °F	72.0 °F	68%	29.67 in	10.0 mi	sw	11.5 mph	18.4 mph	N/A		Clear	



YEAR UTILI	TY CODE PLAN	NT CODE STACK	ID FLUE ID		INSERVICE DATE CODE	STACK FLUE STATUS	FLUE HEIGHT	AREA AT			EXIT TEMP 100 PC	T EXIT TEMP 50 PCT	EXIT VELOCITY 100 PC	EXIT VELOCITY 5	O PCT EXIT TEMP	SUMMER EXIT TEMP W	INTER EXIT TEMP SOURCE
2005	9273	994 1	1B	5/1/1967 0:00		OP	553	491	990000	690000	307	290	34	23	218	154	M
2005	9273	994 2	18	3/1/1996 0:00		OP	612	183	810000	575000	125	124	74	52	134	119	M
2005	9273	994 2	2B	9/1/1995 0:00		OP	612	314	1450000	990000	295	289	77	53	199	159	M
2005	9273	994 2	28	3/1/1996 0:00		OP	596	333	1425000	975000	123	120	71	49	256	242	M
2005	9273	994 3	3	11/1/1977 0:00		OP	615	380	2000000	1200000	166	160	88	53	214	150	М
2005	9273	994 4	4	4/1/1986 0:00		OP	615	380	1900000	1000000	150	142	83	44	158	154	M